

STATE OF WASHINGTON  
**DEPARTMENT OF FISH & WILDLIFE**  
**LANDS AND RESTORATION SERVICES PROGRAM**  
Salmonid Screening, Habitat Enhancement &  
Restoration Division (SSHEAR)

**OFF-CHANNEL SITE INVENTORY DATA**

**General Information:**

<b>Region:</b> North Coast	<b>Observer(s):</b> Nettnin
<b>River System:</b> Sol Duc	<b>Date:</b> 1/8/97
<b>Site Identifier:</b> S-304L-04	<b>WRIA:</b> 20.0304 I (Proposed)
<b>River Mile Location:</b> 2.0	<b>RB/LB:</b> LB
<b>Local Name:</b> Wapiti Flats	<b>Trib. to:</b> E.F. Gunderson Cr. 20.0304 A
<b>Legal Description:</b> NE¼ Sec 20 T29N R13W	<b>County:</b> Clallam
<b>Habitat Type:</b> Terrace Tributary	
<b>Landowner:</b> <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private	
<ul style="list-style-type: none"><li>- Joel Dahlgren</li><li>- Possible other private landowners involved.</li><li>- Rayonier Timberlands Operating Company</li></ul>	

**Directions to site:** Starting at Forks drive north on highway 101 to Luken Rd. (MP 196.2 access to Forest Service headquarters). Turn onto Luken Rd. and proceed about 0.1 mi. to the top of the hill. There are two driveways, one to the left and one to the right, go straight and park at the cable gate. Proceed down the road through the timber and into a pasture. Part way through the pasture one will cross a culvert (about 0.2 mi. from the gate.). This is Luken Marsh (S-304L-03). Continue on to the bridge (60 - 80 m), immediately above the bridge is the confluence of Wapiti Flats channel (S-304L-04) and E.F. Gunderson (S-304L-01). Wapiti Flats is the channel that continues straight away from the bridge.

**Site Overview:** This second order stream drains about 160 acres. It has a flat to gentle gradient throughout the entire channel. The first 400 m appear to have been ditched when the land was cleared for pasture. There is little in the way of an RMZ, and the fields are mostly sedge and canary grass. The rest of the channel consists of mainly sedge wetland with patches of scrub-shrub and an over story of alder. This upper reach is bordered by 10 - 15 year old conifer plantations.

**Habitat Information:**

**Water source:** Surface runoff, springs and wetlands

**Intermittent/year-around:** Unknown probably intermittent

**Estimated flows (cfs):** Lower end: 1 - 3 Upper end: 0.5 - .1

**Water temperatures:** Lower end: 5.0° C Upper end: 3.5° C

- 1/15/97: 1.5° C at the mouth.
- 2/12/97: 4° C at minnow trap sites.

**Adjacent stream temperature E.F. Gunderson Cr. (20.030 A):** 5° C

- 1/15/97: 1.5° C
- 2/12/97: 4.5° C

**Other water observations:** Water is tannic colored

**Site area measurements:** ☐ Indirect ☐ Direct ☒ Combination

Widths: Channel- 1 - 2 m Ponds- 0 Wetlands- 20 - 100 m

Depths: Channel- 30- 60 cm Ponds- 0 Wetlands- 10 - 40 cm Max- 60 cm

Total length surveyed (includes wetlands): 1,580 m

**Total existing habitat area (est.):** 2,370 m<sup>2</sup>

Spawning area: None

Impounded area: None

Other rearing area: 2,370 m<sup>2</sup>

**Spawning Habitat conditions:** ☒ None ☐ Poor ☐ Fair ☐ Good ☐ Excellent

**Describe spawning habitat:** NA

**Rearing habitat conditions:** ☐ None ☐ Poor ☐ Fair ☐ Good ☒ Excellent

**Describe pond and other rearing habitat:**

- Channel is low gradient and has width to depth ratio that allows for slow moving water.
- Water remains clear during high flows.
- The upper 1100 m consist of a wide shallow wetland with sedges, rushes, red osier dogwood, willow, crab apple, spirea and salmonberry give shade and cover.

**Describe inaccessible habitat:** None

**Describe wetland:** ☐ Bog ☒ Marsh ☒ Scrub-shrub Wetland ☒ Forested Wetland

- Except for the first 80 m, the rest of this channel is wetlands. The lower 300 m are converted to pasture, but sedges and reed canary grass are the dominant groundcover. The next short reach is forested wetland. In the upper reach, there is a mixture of both marsh and scrub-shrub wetlands. It supports: sedges, rushes, spirea, ninebark, willow, red osier dogwood, crab apple, spruce and cedar.

**Flooding potential:** ☒ Low ☐ Medium ☐ High

This system is well removed from any flood potential.

**Fish Information:**

**Site entry condition to (E.F. Gunderson 20.0304 A):** ☐ Poor ☐ Fair ☒ Good

**Coho access and use:**

Juvenile- ☐ Unknown ☐ None ☐ Poor ☐ Fair ☒ Good

Adult- ☐ Unknown ☐ None ☐ Poor ☐ Fair ☒ Good

Although adults can access this stream there isn't any spawning habitat.

- On 1/8 - 1/9/97 one minnow trap was set and fished; one cottid was caught.
- On 2/11 - 2/12/97 three minnow traps were set; four cottid were caught.

**Other species access and use:** ☐ Chum ☐ Pink ☐ Sockeye ☐ Chinook ☒ Trout

- Trout have access and are probably present but they weren't observed.

**Habitat Improvements:**

**Enhancement opportunities:**

Fence stream to omit cattle.

Revegetate stream banks through pasture.

Remove reed canary grass at upper end of pasture.

Install gravel pad at mouth.

Remove culvert in upper reach from abandoned road (not a problem at this time).

Good equipment access.

**Additional Comments:**

- There is one culvert in this system located in the upper reach. It is 2 X 30 ft and appears to be undersized, because water flows over the road from time to time and the culvert is not plugged.

**Attachments Available:**

**Contact respective SSHEAR habitat biologist for the following checked items:**

<input type="checkbox"/> Aerials	<input checked="" type="checkbox"/> Sketch	<input checked="" type="checkbox"/> Maps	<input type="checkbox"/> Culvert Report
<input type="checkbox"/> Other references	<input type="checkbox"/> Spawning surveys	<input checked="" type="checkbox"/> Juvenile trapping	<input type="checkbox"/> Fishway Report

**DATE:** 2/11/97

**OBSERVER:** Darrow, Nettnin

**MINNOW TRAPPING REPORT**

TRAP	DATE		DATE		CATCH		RBT	CUTT	COTTID
	SET	TEMP	PULLED	TEMP	COHO UMRK	MRK			
1	2/11	4.0°C	2/12	4.0°C	0	0	0	0	1
2	2/11	4.0°C	2/12	4.0°C	0	0	0	0	2
3	2/11	4.0°C	2/12	4.0°C	0	0	0	0	1
<b>TOTALS:</b>					0	0	0	0	4

**COMMENTS:**

- Trap 1 was placed about 400 m above the confluence.
- Trap 2 was placed about 300 m above the confluence.
- Trap 3 was placed about 20 m above the confluence.

UNNAMED (20.0304J)  
S-304L-05

WAPITI FLATS  
(20.0304I)

S-304L-04

LUKEN MARSH  
(20.0304H)

S-304L-03

UNNAMED (20.0304G)

S-304L-02

E.E. GUNDERSON CR. (20.0304A)

S-304L-01

RIVER: SOL DUC

TRIB: E.F. GUNDERSON CR. WRIA: 20.0304A

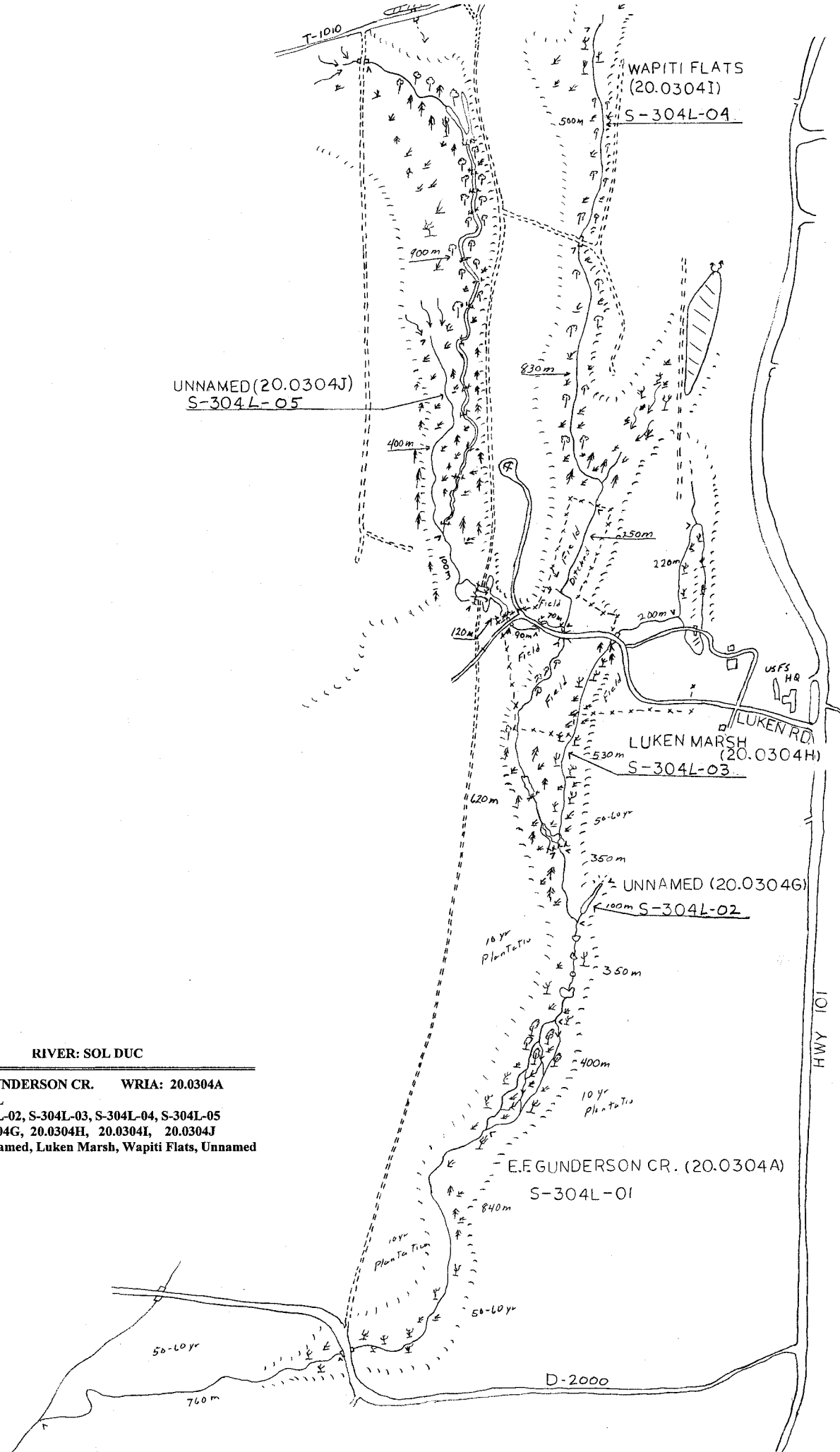
AREA: S-304L

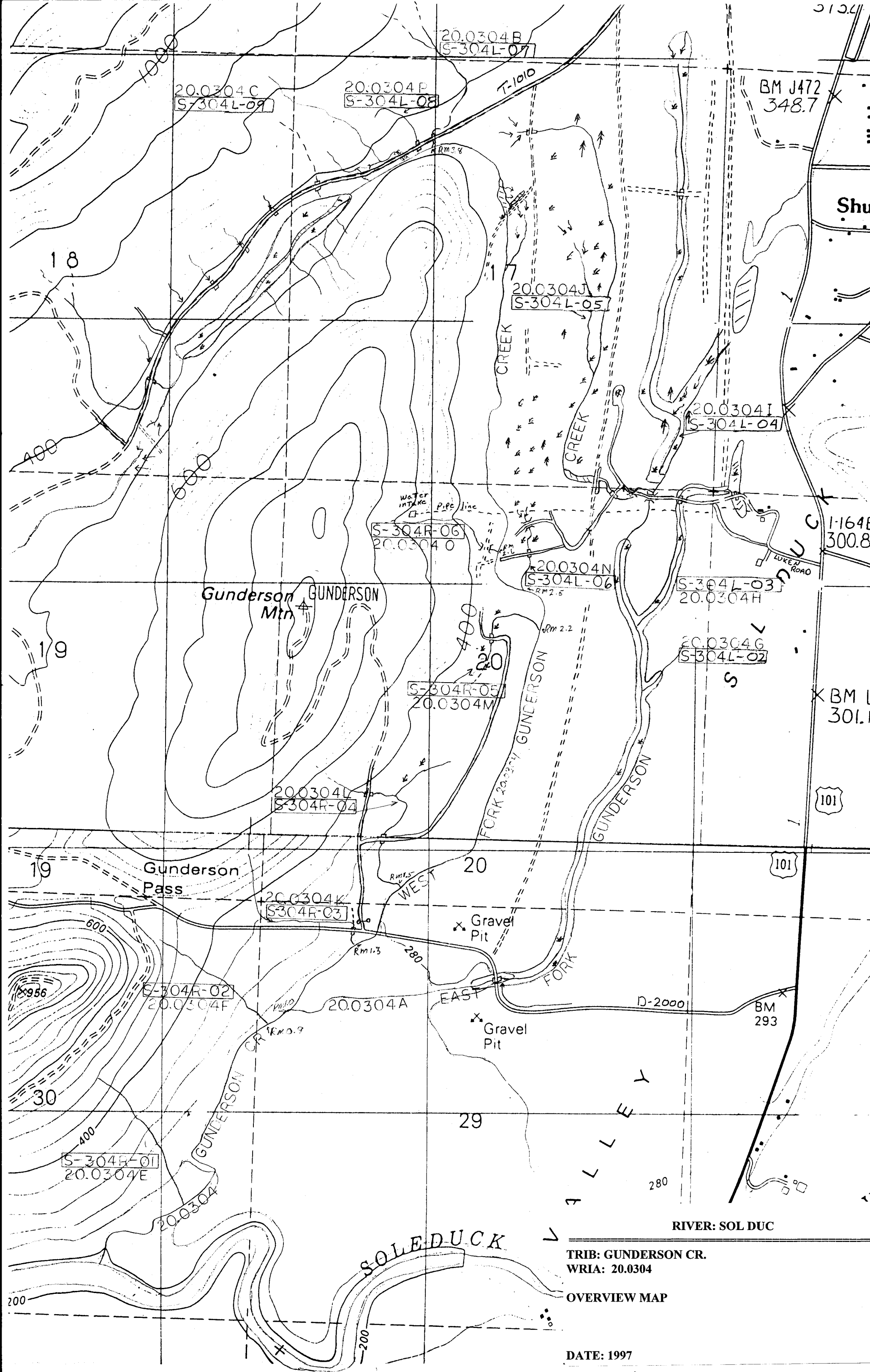
SITES: S-304L-02, S-304L-03, S-304L-04, S-304L-05

WRIA: 20.0304G, 20.0304H, 20.0304I, 20.0304J

NAMES: Unnamed, Luken Marsh, Wapiti Flats, Unnamed

DATE: 1/97





RIVER: SOL DUC

TRIB: GUNDERSON CR.  
WRIA: 20.0304

OVERVIEW MAP

DATE: 1997



**RIVER: SOL DUC RIVER**

FORKS QUADRANGLE  
 WASHINGTON  
 MINUTE SERIES (TOPOGRAPHIC)  
 NW/4 FORKS 15' QUADRANGLE

## AREA MAP

9/96

